

PPSU

P MT Polyphenylsulfone

Product information

Part Marking Code PPSU-FR

Color NC

Material Shape Pellets

Process Injection molding

FR V-0

Material Attribute Flame retardant

Mechanical behavior	Condition	Standard	Value	Unit
---------------------	-----------	----------	-------	------

Elongation	23	ASTM D638	60	%
------------	----	-----------	----	---

Compressive Strength		ASTM D695	98.94	MPa
----------------------	--	-----------	-------	-----

Flexural Strength	23	ASTM D790	91	MPa
-------------------	----	-----------	----	-----

Flexural Modulus	23	ASTM D790	2410	MPa
------------------	----	-----------	------	-----

Izod Un-notch Impact		ASTM D256	694	J/m
----------------------	--	-----------	-----	-----

Tensile Strength	Yield 23°C	ASTM D638	69.6	MPa
------------------	------------	-----------	------	-----

Tensile Modulus	23	ASTM D638	2340	MPa
-----------------	----	-----------	------	-----

Thermal	Condition	Standard	Value	Unit
---------	-----------	----------	-------	------

HDT	Unannealed 0.45MPa	ASTM D648	220	
-----	--------------------	-----------	-----	--

HDT	Unannealed 1.80MPa	ASTM D648	216	
-----	--------------------	-----------	-----	--

CLE	Flow	ASTM D696	3.1E-4	cm/cm/
-----	------	-----------	--------	--------

Vicat Softening Temperature		ASTM D1525	218	
-----------------------------	--	------------	-----	--

Physical property	Condition	Standard	Value	Unit
-------------------	-----------	----------	-------	------

Water Absorption	23 24hr	ASTM D570	1.1	%
------------------	---------	-----------	-----	---

Density		ASTM D792	1.29	g/cm ³
---------	--	-----------	------	-------------------

Electrical properties	Condition	Standard	Value	Unit
-----------------------	-----------	----------	-------	------

Dielectric Constant	60Hz	ASTM D150	3.44	
---------------------	------	-----------	------	--

Volume Resistivity		ASTM D257	1E15	Ω.cm
--------------------	--	-----------	------	------

Dielectric Strength		ASTM D149	14.2	KV/mm
---------------------	--	-----------	------	-------

Hardness	Condition	Standard	Value	Unit
----------	-----------	----------	-------	------

Rockwell Hardness	R(Scale)	ASTM D785	123	
-------------------	----------	-----------	-----	--

Flammability	Condition	Standard	Value	Unit
--------------	-----------	----------	-------	------

Flame Rating		UL94	V-0	
--------------	--	------	-----	--